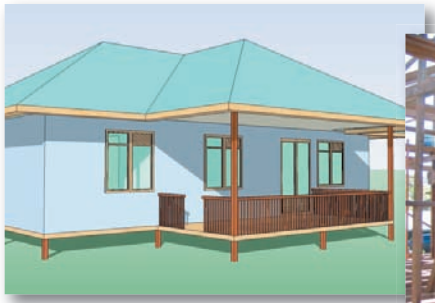

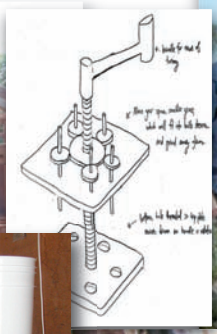



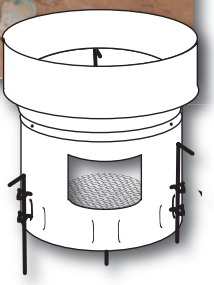

Design For Sustainable Communities

ER 291- 003, CCN: 27460, Prof Ashok Gadgil

Spring 2008, 3 units

M 10-11, W 10-12
101 Wheeler

This course provides **conceptual and hands-on experience in design and implementation** of innovative products or processes for improving sustainability of resource-constrained communities (mostly poor ones in the developing countries). Teams of three or four students each will take on separate practical projects, with guidance from subject experts, to help mature innovations into useful products or processes and to assess social and business opportunities for real-world dissemination of these products. Because these problems are interdisciplinary in nature, **we welcome students from a variety of backgrounds, including ERG, engineering, physics, environmental science, architecture, economics, business, public policy, and public health, among others.**

In Spring 2007, projects included:

- **Developing a carbon offset funding proposal for a cookstove in Darfur,**
- **Designing prototypes and economic analysis for solar hot water heaters in Guatemala**
- **Performing an in-depth needs assessment, product analysis, and prototype design of low-cost lighting for a fishing village in India.**

Prerequesites: Graduate student standing, or consent of instructor.
COURSE SIZE IS LIMITED

For more information, see:

http://eetd.lbl.gov/staff/gadgil/teaching.html